PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF MD4 AT PATUXENT BLVD. AND INTERCONNECT TO MD 235 IN ST. MARY'S COUNTY.

INTERSECTION OPERATION

THE INTERSECTION IS TO OPERATE IN A NEMA 3 PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE NORTHBOUND MOVEMENT OF MD 4. THE MD 4 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE SIDE STREET WILL OPERATE ALONE.

1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00 - 30, 104.12 - 01, 104.13 - 01, 104.31 - 01, 104.32 - 01, 104.81- 02

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION. DESCRIPTION CATEGORY CODE NO.

QUANTITY

UNITS

QUANTITY

NONE

EQUIPMENT CATEGORY	то	BE	FURNISHED DES	AND/OR CRIPTIO	INSTALLED N	ВҮ	THE	CONTRACTOR.	
CODE NO.				0 T TD4 C		74			

DESCRIPTION		
	LS	LS
MAINTENANCE OF TRAFFIC (AVERAGE)	LS	LS
MOBILIZATION (AVERAGE)	EA	ł
27 FT. STEEL MAST ARM POLE WITH 60 FT. MAST ARM 27 FT. STEEL TWIN MAST ARM POLE WITH TWO 50 FT. MAST ARMS	EΑ	1
	EA	2
15 FT. LUMINARIES ARM	EA	2
250W HPS LAMP AND LUMINARIES STANDARD S.H.A. TRAFFIC SIGNAL CONTROLLER, BASE MOUNTED NEMA 6 CABINET,	EA	1
VIDEO DETECTION INTERFACE, TELEMETRY INTERFACE EQUIPMENT, AND		
FOUR-CHANNEL LOOP DETECTOR AMPLIFIERS	EA	2
VIDEO DETECTOR CAMERA AND 300 FT. CABLE NON-INVASIVE PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE	EΑ	2
	EA	5
12 IN. 3-SECTION LED SIGNAL HEAD - MAST	EA	l
12 IN. 5-SECTION LED SIGNAL HEAD - MAST	EA	l
8 IN./ 12 IN. 5-SECTION LED SIGNAL HEAD - MAST	EA	ţ
16 IN.X VAR. D-3(I) DUAL FACED SIGN - MAST ARM	EA	{
30 IN. X 51 IN. SHIELD ASSEMBLY SIGN - POLE MOUNT	EA	1
48 IN. X 75 IN. SHIELD ASSEMBLY SIGN - POLE MOUNT	EA	3
48 IN.X 48 IN. W3-3 "NEW" SIGN - GROUND	LF	105
4 IN. X 6 IN. WOOD SIGN SUPPORTS	CY	2
TEST PIT EXCAVATION	EA	28
HANDHOLE	LF	350
2-CONDUCTOR TRAY CABLE (NO.12 AWG)	LF	80
5-CONDUCTOR CABLE (NO. 14 AWG)	LF	700
7-CONDUCTOR CABLE (NO. 14 AWG)	LF	4800
12-PAIR TELEMETRY INTERCONNECT CABLE (NO. 19 AWG) - JELLY FILLED	LF	600
3-WIRE (NO. 4 AWG) ELECTRICAL CABLE	LF	225
BARE COPPER GROUND WIRE (NO. 6 AWG)	LF	10.60
2 IN. PVC CONDUIT ESCHEDULE 80] - TRENCHED	LF	38.00
3 IN. PVC CONDUIT ESCHEDULE 803 - TRENCHED	LF	185
3 IN. PVC CONDUIT [SCHEDULE 80] - PUSHED/BORED	LF	8.5
4 IN. PVC CONDUIT ESCHEDULE 80] - TRENCHED	LF	135
4 IN. PVC CONDUIT ESCHEDULE BOJ - SLOTTED IN ROADWAY	CY	· 11
CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT	EA	6
GROUND ROD - 3/4 IN. X IO FT. LENGTH	EA	ı
CUT, CLEAN, AND CAP MAST ARM	LF	65
24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE	E.A	2
THE PART OF THE CONCRETE FOUNDATION 12 INCHES BELOW GRADE	∟ ∧	<u>_</u>

PROJECT CONTACTS:

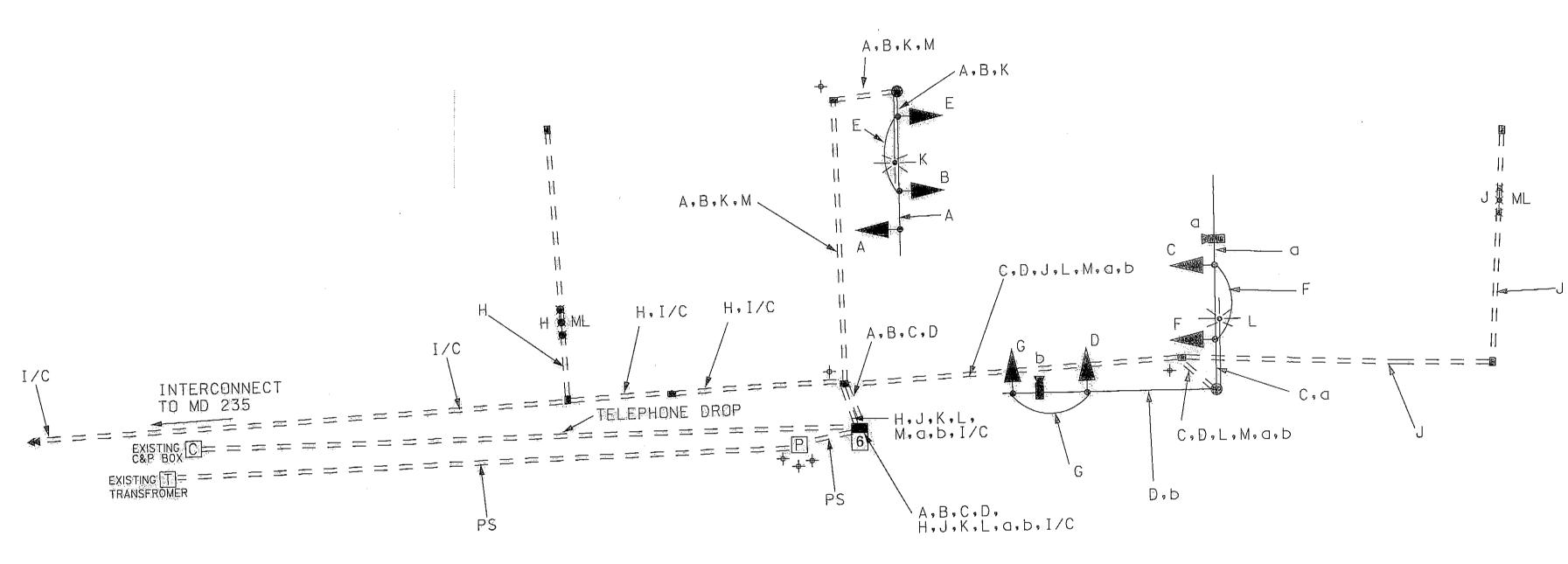
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PHONE: (410) 787-7630
DEBBIE GARNER STAKING ENGINEER
PHONE: 301-997-1077
THE POWER COMPANY REPRESENTATIVE IS:

SMECO MR . BOB TROTT

WHITE PLAINS, MARYLAND 20695 301-855=1011

PHASE CHART

							R	Δ
Phase 1 & 6	∢ G-G	∢ G-G	G	R	R	R		
1 Change	⊲ Y-G	∢Y-G	G	R	R	R	R	
Phase 2 & 6	G	G	G	G	G	R	R	♦ ——
2 & 6 Change	Y	Y	Y	Y	Υ	R	R	>
Phase 4	R	R	R	R	R	G	G	
4 Change	R	R	R	R	R	Y	Υ	<u> </u>
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	 FL/R 	→ A



 $\overline{\mathsf{KE}}\,\mathsf{X}$

7 CONDUCTOR ELECTRACAL CABLE (NO. 14 AWG)

F 5 CONDUCTOR ELECTRICAL CABLE $G \int (NO. 14 AWG)$

H MIRCO-LOOP LEAD-IN CABLE

K > 2 CONDUCTOR ELECTRICAL CABLE L > (NO. 12 AWG) TRAY CABLE

M) 1 CONDUCTOR (NO. 6 AWG)
STRANDED COPPER GROUND WIRE

I/C > 12 PAIR INTERCONNECT CABLE - (SEE INTERCONNECT PLANS)

PS — POWER SERVICE UNDERGROUND 3 WIRE 1 CONDUCTOR (NO. 4 AWG)

🕂 GROUND ROD

ML _ MIRCO-LOOP PROBES SET OF (3) THREE

b VIDEO DETECTION CABLE



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY



MD 4 AND PATUXENT BLVD

GENERAL INFORMATION PLAN									
SCALE NONE		DATE .	10/22/08 (CONTRACT NO	BW996M82				
DESIGNED BY_	M. A. MEARS		COUNTY						
DRAWN BY	M. A. MEARS		LOGMILE		06.83				
CHECKED BY _	M. A. MEARS			. <u>I–912</u>					
F.A.P. NO	N/A		TOD NO	·					
TS NO. 4672	DRAWING		OF	SHEET NO.	2 OF 4				

The Traffic Group, Inc. 9900 Franklin Square Drive Baltimore, Maryland 21236 410-931-6600 1-800**-**583-8411

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF APPROVAL.SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME THESE PLANS SHALL BE NULL AND VOID WITHOUT, A RE-REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

PLOTTED: Wednesday, October 22, 2008 AT 04:38 PM FILE: F:\1999\1999-0717A\Des\pGN-P001_MD4.dgn

Fax 410-931-6601

REMOVE AND DISPOSE OF EXISTING CONCRETE FOUNDATION 12 INCHES BELOW GRADE

REMOVAL OF EXISTING PAVEMENT MARKINGS (SYMBOL)